

Title (en)  
HEAT AND MASS EXCHANGE APPARATUS BETWEEN LIQUIDS AND GASES OR VAPOURS

Publication  
**EP 0102480 A3 19850306 (DE)**

Application  
**EP 83106728 A 19830708**

Priority  
HU 227182 A 19820713

Abstract (en)  
[origin: EP0102480A2] 1. Apparatus for heat and/or mass exchange between flowing liquids and gases or vapours flowing oppositely or transversely thereto, so that the liquids and the gases or vapours at least partly contact each other and wherein the liquid is carried by at least one liquid-guiding surface (1) having apertures (2) through which the liquid flows, characterized in that a turbulence element (3) projecting from the surface (1) is arranged in front of each aperture (2), taken in the direction of flow.

IPC 1-7  
**F28C 3/02**; **B01D 19/00**; **F28C 3/06**; **F28F 13/06**; **B01D 1/14**

IPC 8 full level  
**B01D 1/14** (2006.01); **B01D 3/26** (2006.01); **B01D 19/00** (2006.01); **F28C 3/02** (2006.01); **F28C 3/06** (2006.01); **F28F 13/06** (2006.01); **F15D 1/10** (2006.01)

CPC (source: EP)  
**B01D 1/14** (2013.01); **B01D 3/26** (2013.01); **B01D 19/0042** (2013.01); **F28C 3/06** (2013.01); **F28F 13/06** (2013.01)

Citation (search report)  
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Designated contracting state (EPC)  
AT BE CH DE FR GB IT LI LU NL SE

DOCDB simple family (publication)  
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**EP 83106728 A 19830708**; AT 83106728 T 19830708; CS 530783 A 19830713; DD 25296383 A 19830711; DE 3377428 T 19830708; HU 227182 A 19820713; PL 24298683 A 19830713